

AMENDMENTS TO THE ABSTRACT:

Please amend the abstract as follows:

A slot array antenna, comprising: consistent with the invention can include
a power feeding waveguide for feeding microwave power[[;]] and a plurality of
rectangular radiating waveguides. The plurality of rectangular radiating waveguides are
connected to a plurality of windows which are disposed along the longitudinal direction
of the power feeding waveguide so as to guide the microwave power from the plurality
of windows to the outside of the antenna. In each of the radiating waveguides, the
interval "d" between the centers of gravity of slot pairs or slots is substantially the same
as the wavelength λ_m of the microwave in the rectangular radiating waveguide. A slot
array antenna of the present invention can be used in a plasma processing apparatus to
increase the plasma density in the plasma-processing chamber.

~~There are provided the slot array antenna and a plasma processing~~
~~apparatus, which are capable of increasing the plasma density in the plasma-~~
~~processing chamber.~~